APRIL/MAY 2024

DOCH35A/GOCH35A — INDUSTRIAL CHEMISTRY – II

Time : Three hours Maximum : 75 marks

Shanmuga Industries Arts & Science College T.V.Malai

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define battery.
2. What are solar cells?
3. Write short notes on rodenticide.
4. Sketch the structure of DDT.
5. What is meant by octane number?
6. Give the composition of water gas.
7. Define Varnish.
8. What are synthetic detergents?
9. Mention the major constituents in cement.
10. What is lead glass? Give their composition and uses.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) With the help of neat diagram, explain the manufacture of sodium chlorate.

Or

(b) Enlist the different types of primary and secondary cells.

12. (a) What are insecticides and herbicides? Give its important categories and explain.

Or

(b) Summarize the mode of action of Baygon.

13. (a) What is meant by petroleum cracking? Explain.

Or

(b) Discuss the composition and uses of oil gas.

14. (a) Enlist the requirements and constituents for good paint.

Or

(b) What are soaps and detergents? How are they prepared?

15. (a) Explain the process of glazing and its vitrification in ceramic industry.

Or

(b) Enumerate about optical and coloured glasses.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. (a) Give an account on fuel Cells. (5)

(b) Outline the manufacture of perchlorates. (5)

17. Explain the synthesis and mode of action of

(a) Parathion

(b) Malathion. (5 + 5)

18. Enumerate about the refining, reforming and knocking processes in petroleum.

19. Describe regarding nonionic detergents, additives and corrosion inhibitors.

20. (a) Describe the dry and wet process of cement manufacturing. (5)

(b) What is meant by reinforced concrete? Explain. (5)

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